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FIG. 1

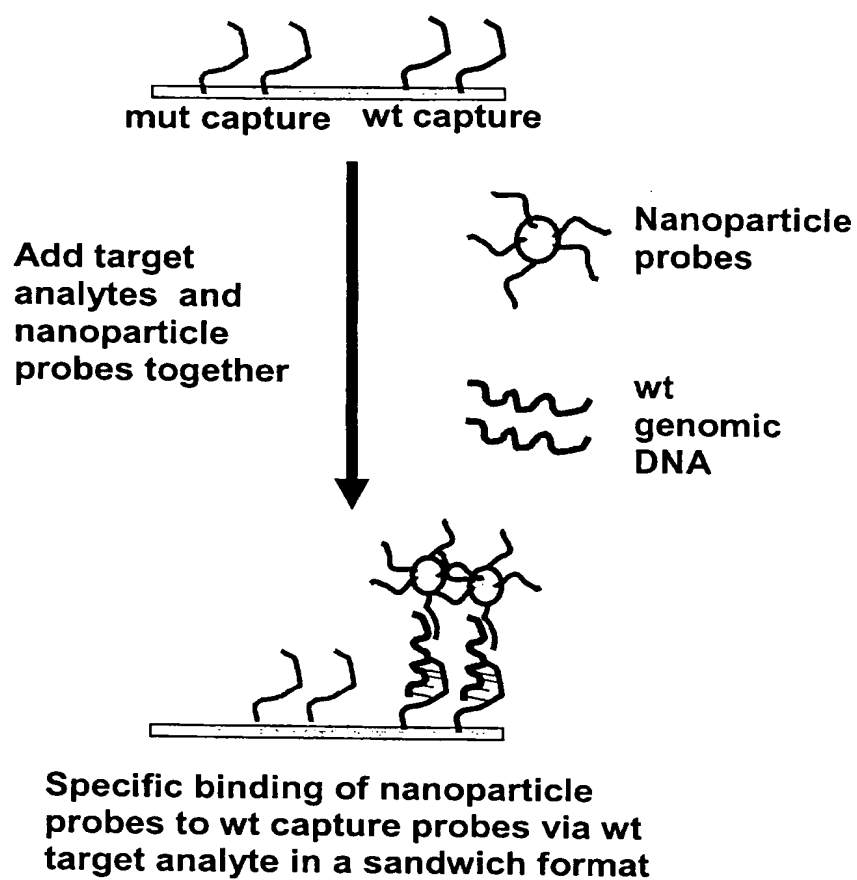


FIG. 2

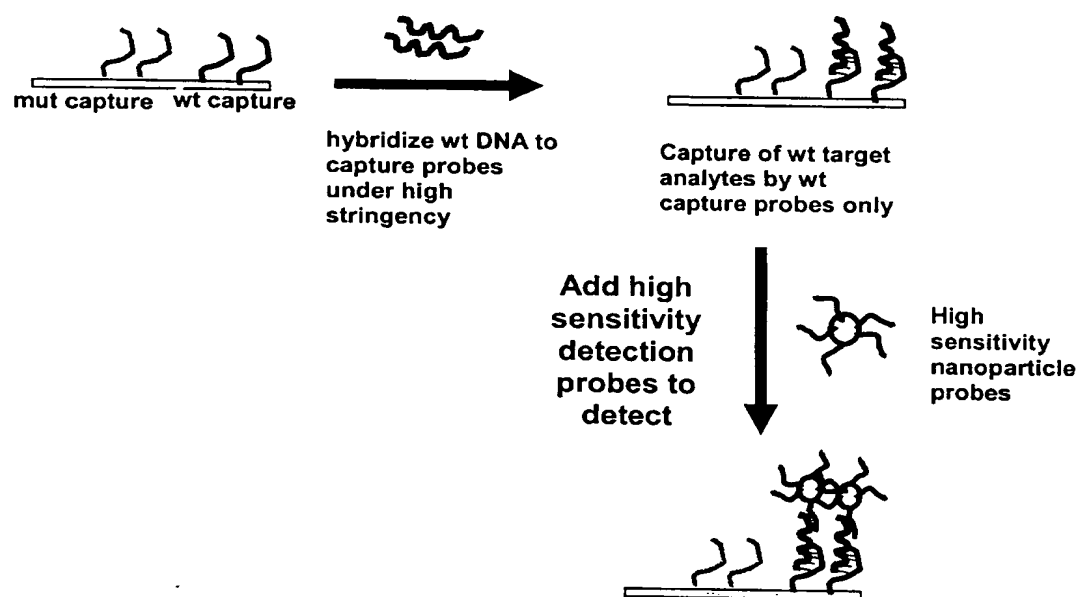


FIG. 3

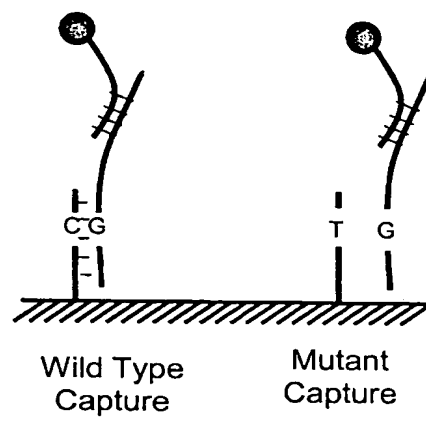


FIG. 4

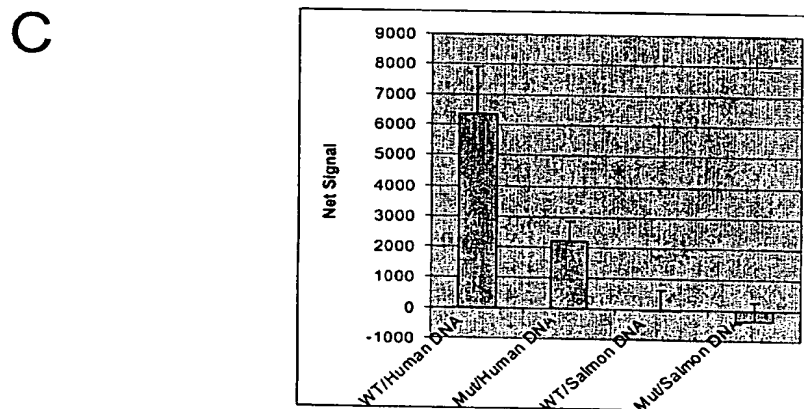
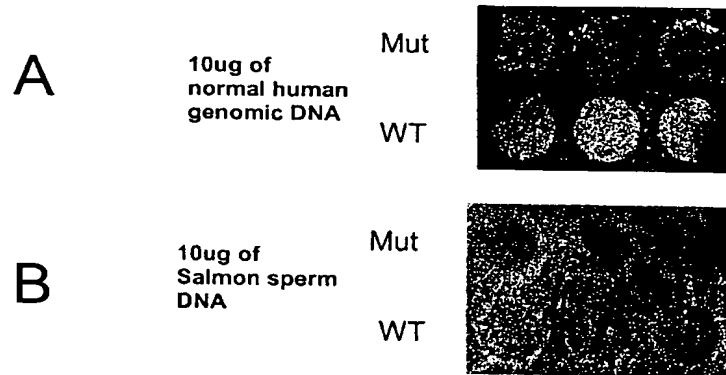


FIG. 5

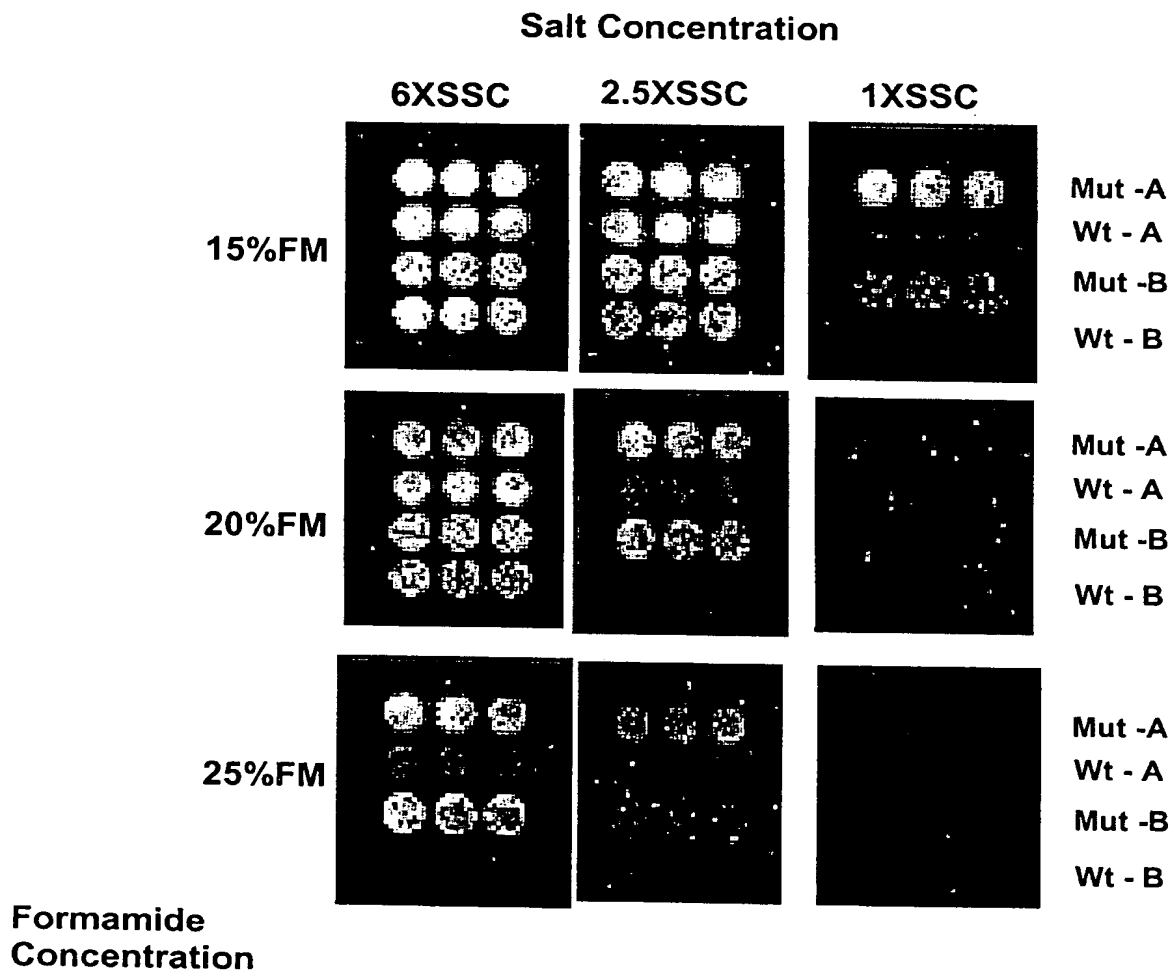


FIG. 6

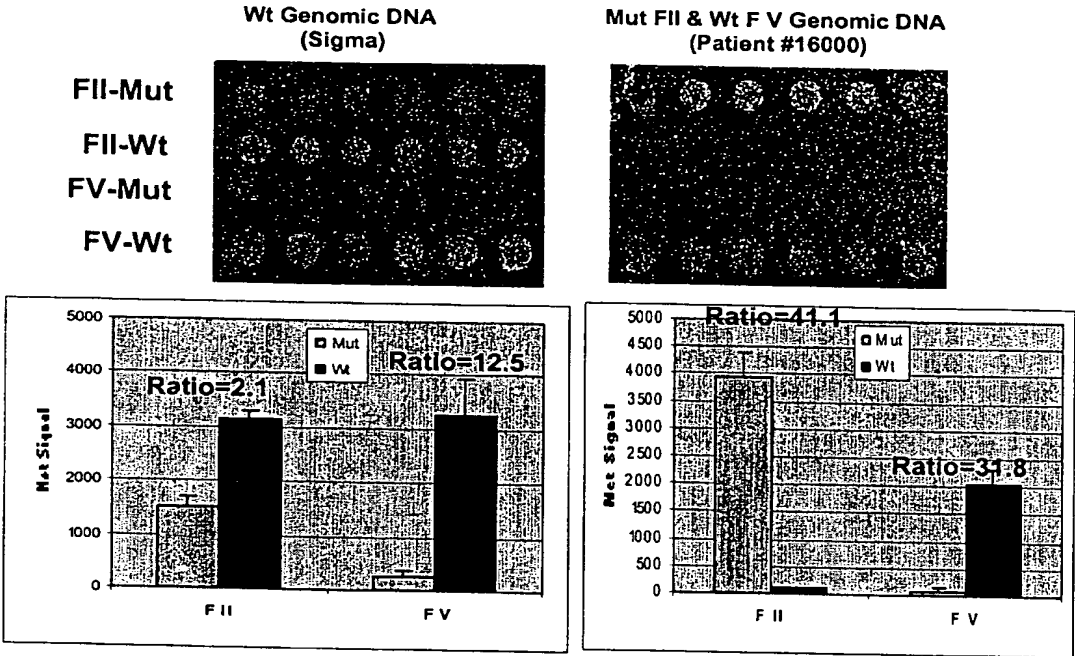
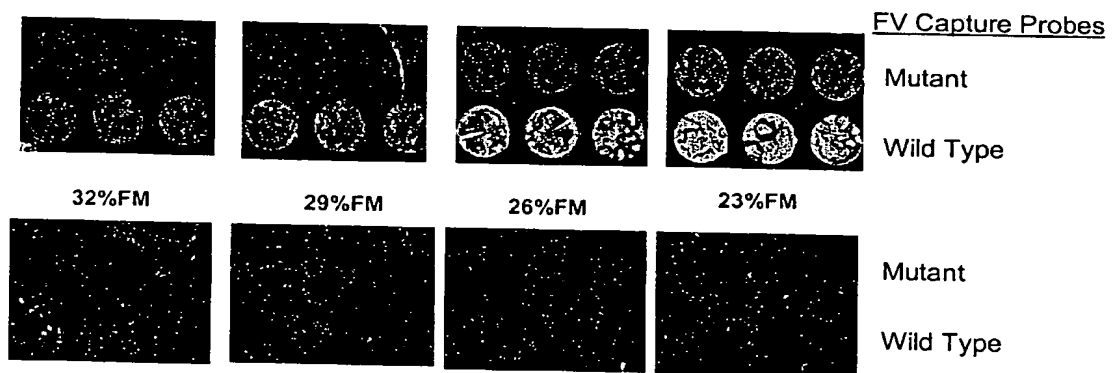


FIG. 7

A



B

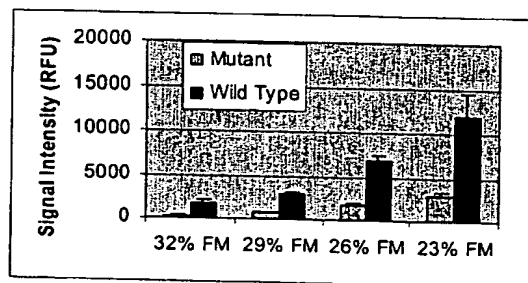


FIG. 8

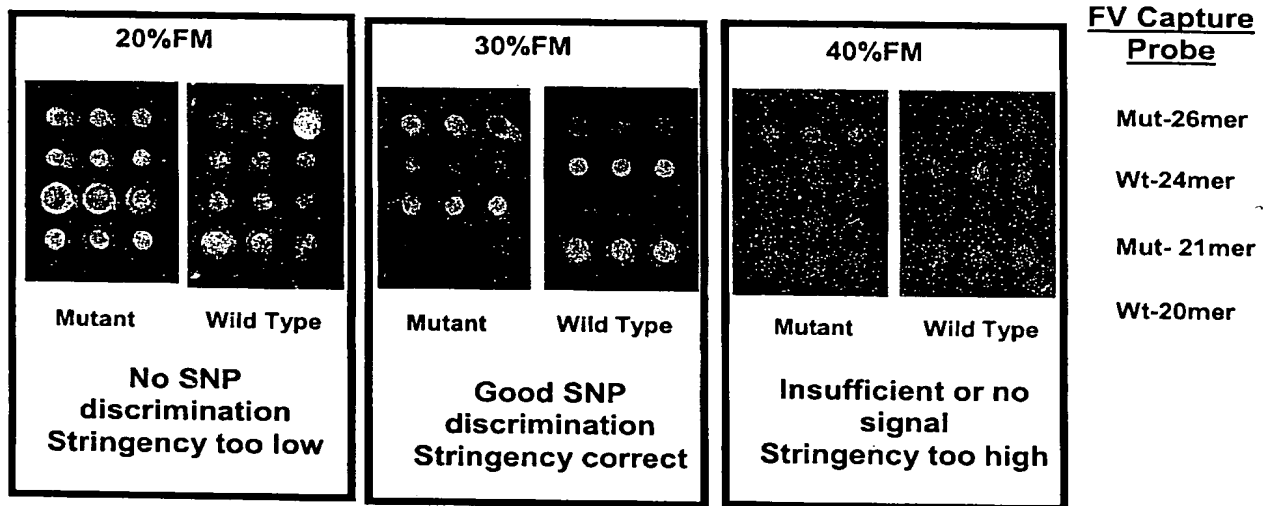


FIG. 9

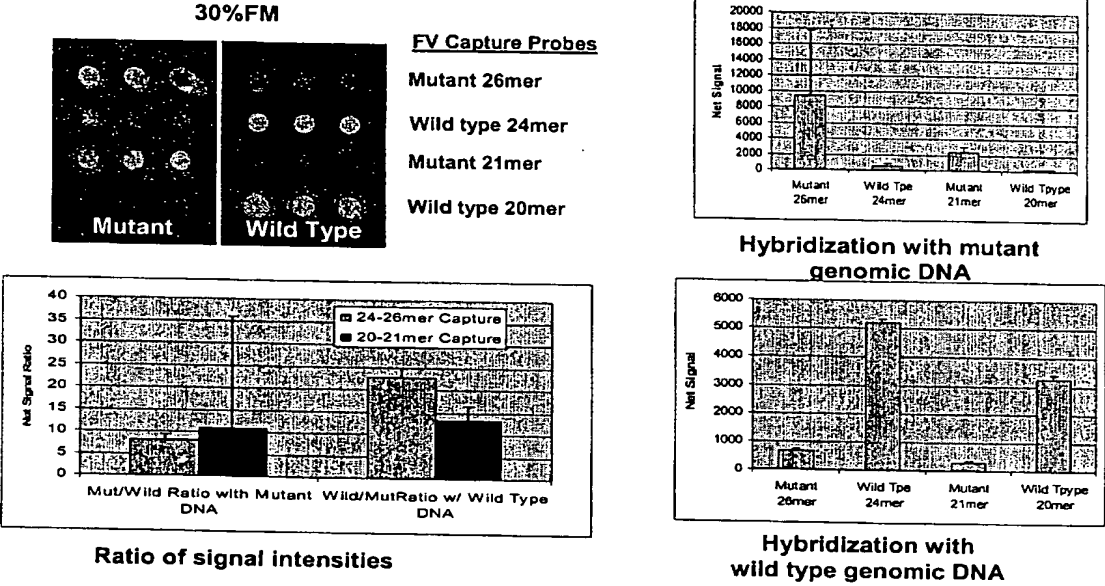
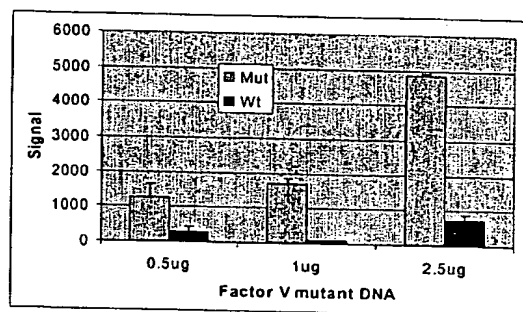
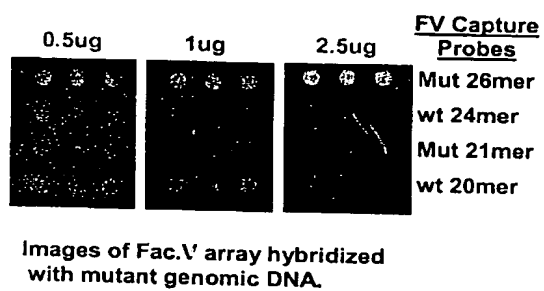


FIG. 10



Signal intensities for mutant (26mer) and wild type (24mer) capture probes

FIG. 11

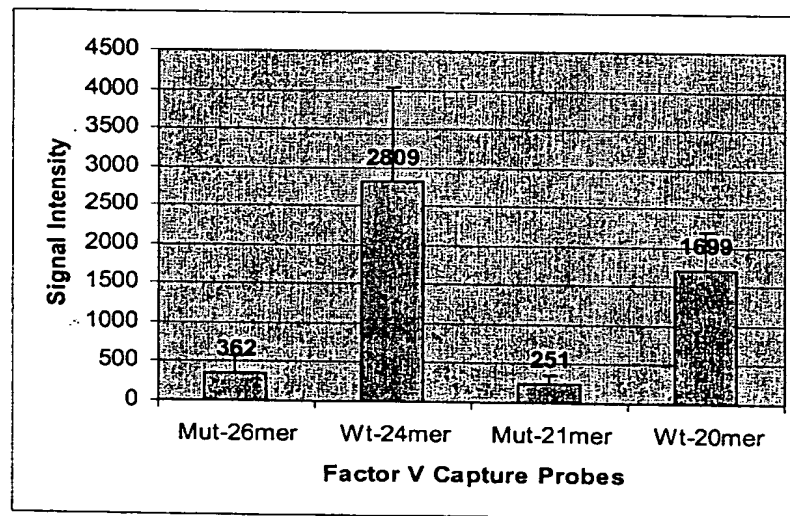
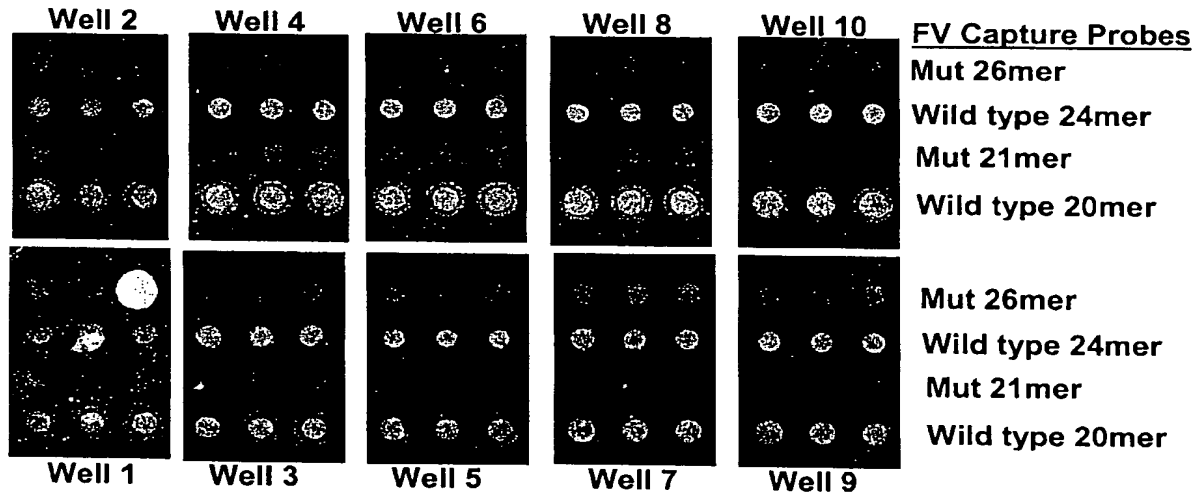


FIG. 12

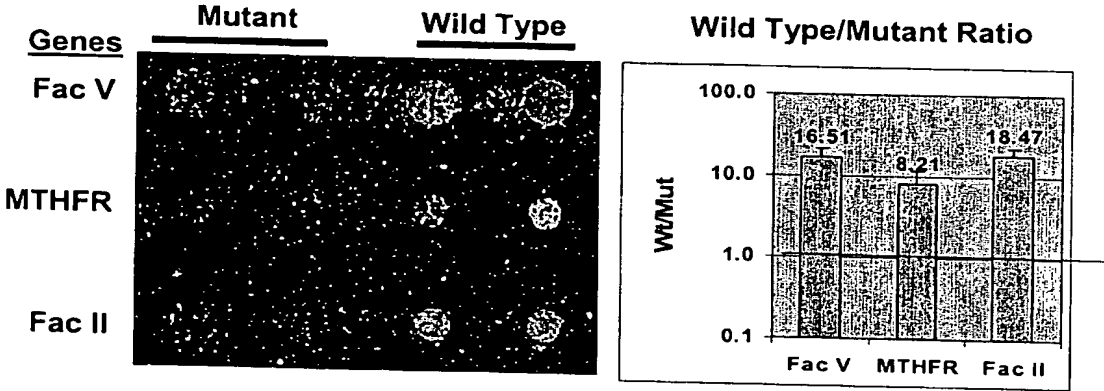


FIG. 13

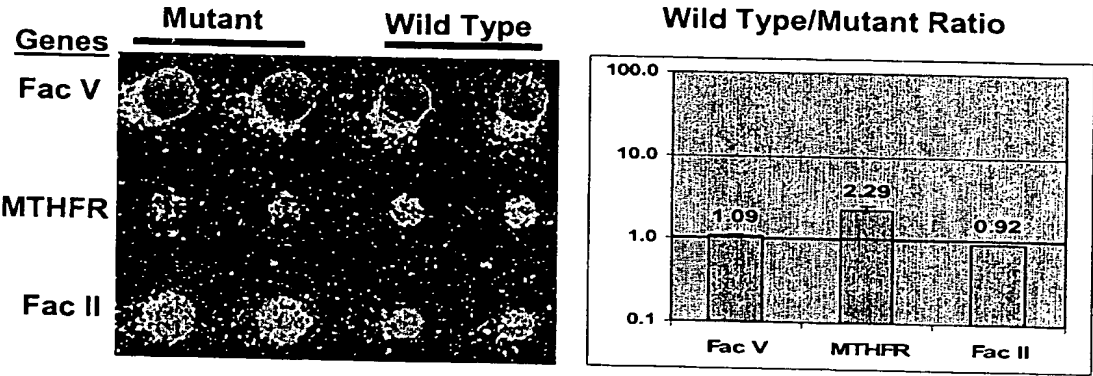
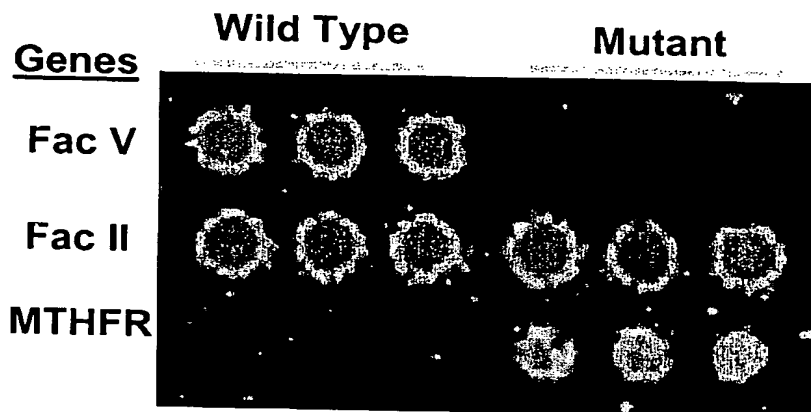
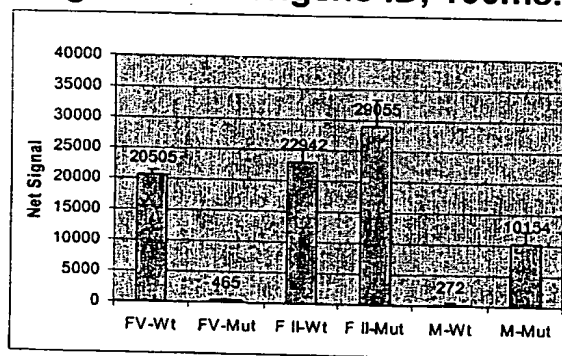


FIG. 14



Imaged with Verigene ID, 100ms.



Match/Mismatch Ratio

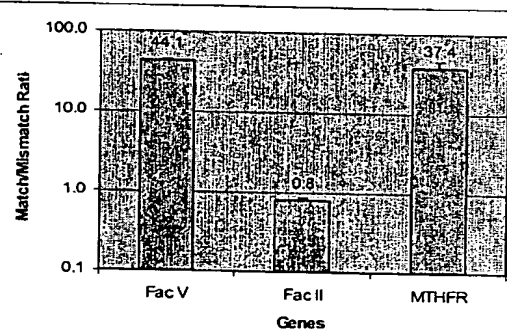


FIG. 15

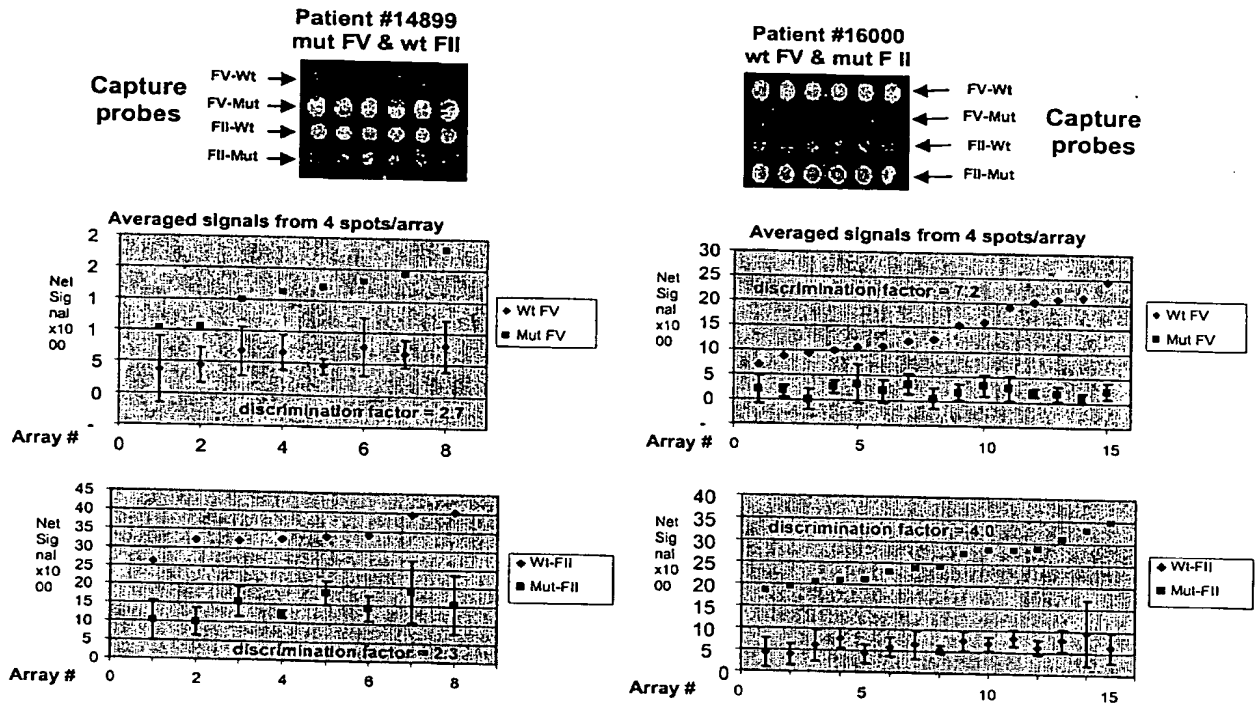
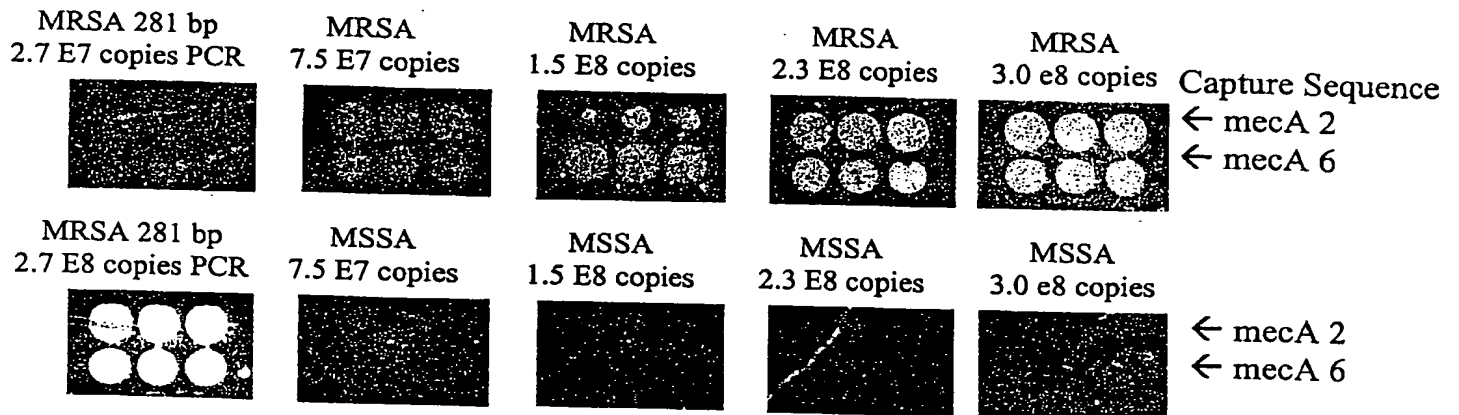


FIG. 16

A



B

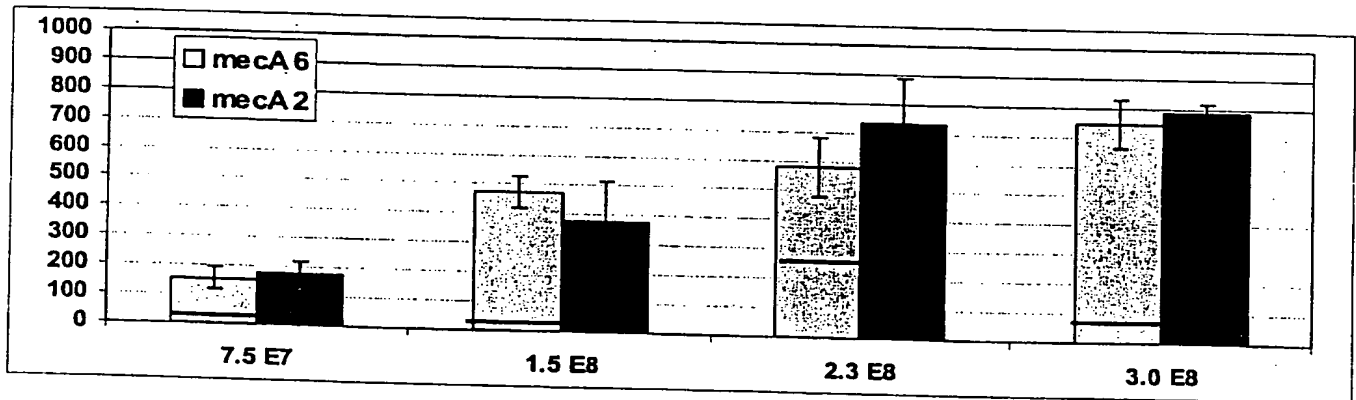


FIG. 17

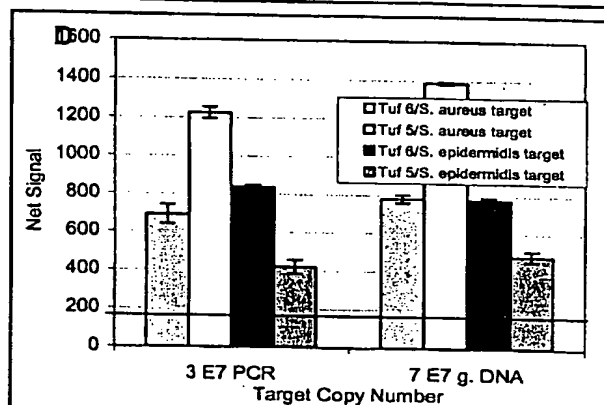
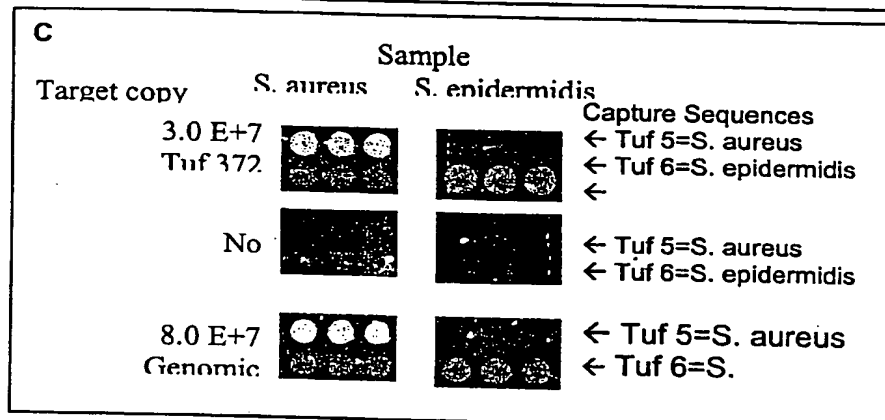
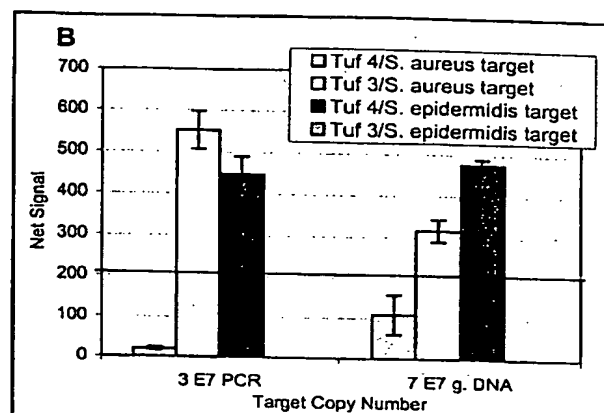
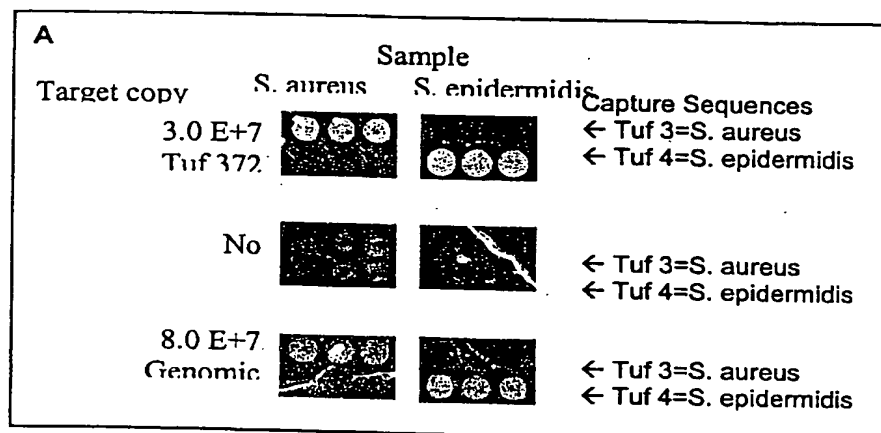


FIG. 18

Name	Template Species	gene	Length	Sequence 5' → 3' (coding strand)
mecA 281	<i>S. aureus</i>	<i>mecA</i>	281	ATCCACCCTCAAACAGGTGAATTATTAGCATTGTAAGCACACCTTCATATGACGTCTATCCATTTATGTATGGCATG AGTAACGAAGAATATAATAAATTAACCGAAGATAAAAAAGAACCTCTGCTCAAGTCAATCCAGATTACAACCTTCACC AGGTTCAACTCAAAAAATATTAACAGCAATGATTGGGTTAAATAACAAACATTAGACGATAAAACAAGTTATAAAA TCGATGGTAAAGGTTGGCAAAAAGATAAATCTTGGGGTGGTTACAACGT
Coa	<i>S. aureus</i>	coagulase	480	CGAGACCAAGATTCAACAAGCCAAGTGAAACAAATGCATACAACGTAACGACAAATCAAGATGGCACAGTATCATAC GGAGCTCGCCCAACACAAAACAAGCCAAGTGAAAAACGCATATAACGTAACAACACATGCAAAATGGTCAAGTATCA TACGGTGTCTCGCCCAACACAAAACAAGCCAAGCAAAAACAAATGCATACAACGTAACAACACATGCAAAATGGTCAAGTA TCATATGGCGCTCGCCCGACACAAAAAAGCCAAGCAAAAACAAATGCATATAACGTAACAACACATGCAAAATGGTCA AGTATCATACGGAGCTCGCCCGACATACAAGAAGCCAAGCGAAACAAATGCATACAACGTAACAACACATGCAAAATG GTCAAGTATCATATGGCGCTCGCCCGACACAAAAAAGCCAAGCGAAACAAACGCATATAACGTAACAACACATGCA GATGGTACTGCGACAT
Tuf 142	<i>S. aureus</i>	<i>Tuf</i>	142	GTGGTCAAGTATTAGCTGCTCCTGGTTCAATTACACCACATACTGAATTCAAAGCAGAAGTATACGTATTATCAAAA GACGAAGGTGGACGTCACACTCCATTCTTCTCARACTATCGTCCACAATTCTATTTCCGTACTAC
Tuf 372	<i>S. aureus</i>	<i>Tuf</i>	372	TGATGCCRGTTGAGGACGTATTCTCAATCACTGGTTCGTGGTACTGTTGCTACAGGCCGTGTTGAACGTGGTCAAATC AAAGTTGGTGAAGAAGTTGAAATCATCGGTTTACATGACACATCTAAAACAACCTGTTACAGGTGTTGAAATGTTCCG TAAATTATTAGACTACGCTGAAGCTGGTGACAACATTGGTGCATTATTACGTGGTGTGCTCGTGAAGACGTACAAC GTGGTCAAGTATTAGCTGCTCCTGGTTCAATTACACCACATACTGAATTCAAAGCAGAAGTATACGTATTATCAAAA GACGAAGGTGGACGTCACACTCCATTCTTCTCARACTATCGTCCACAATTCTATTTCCGTACTAC
Tuf 372	<i>S. epidermidis</i>	<i>Tuf</i>	372	TGATGCCAGTTGAGGACGTATTCTCAATCACTGGTTCGTGGTACTGTTGCTACAGGCCGTGTTGAACGTGGTCAAATC AAAGTTGGTGAAGAAGTTGAAATCATCGGTATGCACGAACTTCTAAAACAACCTGTTACTGGTGTAGAAATGTTCCG TAAATTATTAGACTACGCTGAAGCTGGTGACAACATCGGTGCTTTATTACGTGGTGTGACGTGAAGACGTACAAC GTGGTCAAGTATTAGCTGCTCCTGGTTCTATTACACCACACACAAAATTCAAAGCTGAAGTATACGTATTATCTAAA GATGAAGGTGGACGTCACACTCCATTCTTCACTAATATCGCCCAATTCTATTTCCGTACTAC
Tuf 372	<i>S. saprophyticus</i>	<i>Tuf</i>	372	TGATGCCAGTTGAGGACGTATTCTCAATCACTGGTTCGTGGTACTGTTGCTACAGGCCGTGTTGAACGTGGTCAAATC AAAGTCGGTGAAGAAATCGAAATCATCGGTATGCAAGAAGAATCAAGCAAAACAACCTGTTACTGGTGTAGAAATGTT CCGTAAATTATTAGACTACGCTGAAGCTGGTGACAACATTGGTGCATTATTACGTGGTGTGTTACGTGATGATGTAC AACGTGGTCAAGTTTTAGCTGCTCCTGGTACTATCACACCACATACAAAATTCAAAGCGGATGTTTACGTTTTATCT AAAGATGAAGGTGGTCGTCATACGCCATTCTTCACTAATACCGCCCAATTCTATTTCCGTACTACTGAC
16S	<i>Staphylococcus</i>		451	CGCCCGGTGAGTGATGAAGGTCTTCGGATCGTAAACTCTGTTATTAGGGAAGAACAACGTGTAAGTAACGTGTGCA CGTCTTGACGGTACCTAATCAGAAAGCCACGGCTAACTACGTGCCAGCAGCCCGGTAAATACGTAGGTGGCAAGCGT TATCCGGAATTATTGGGCGTAAAGCGCGCTAGGCGGTTTTTTAAGTCTGATGTGAAAGCCACGGCTCAACCGTGG AGGGTCATTGGAAACTGGAAACTTGAGTGCAGAAGAGGAAAGTGAATTCCATGTGTAGCGGTGAAATGCGCAGAG ATATGGAGGAACACCAGTGGCGAAGGCGACTTTCTGGTCTGTAACGTGACGCTGATGTGCGAAAGCGTGGGGATCAA CAGGATTAGATACCCTGGTAGTCCACGCCGTAAACGATGAGTGCTAAGTGTTAGGGGGTTTTCCGCC

FIG. 19

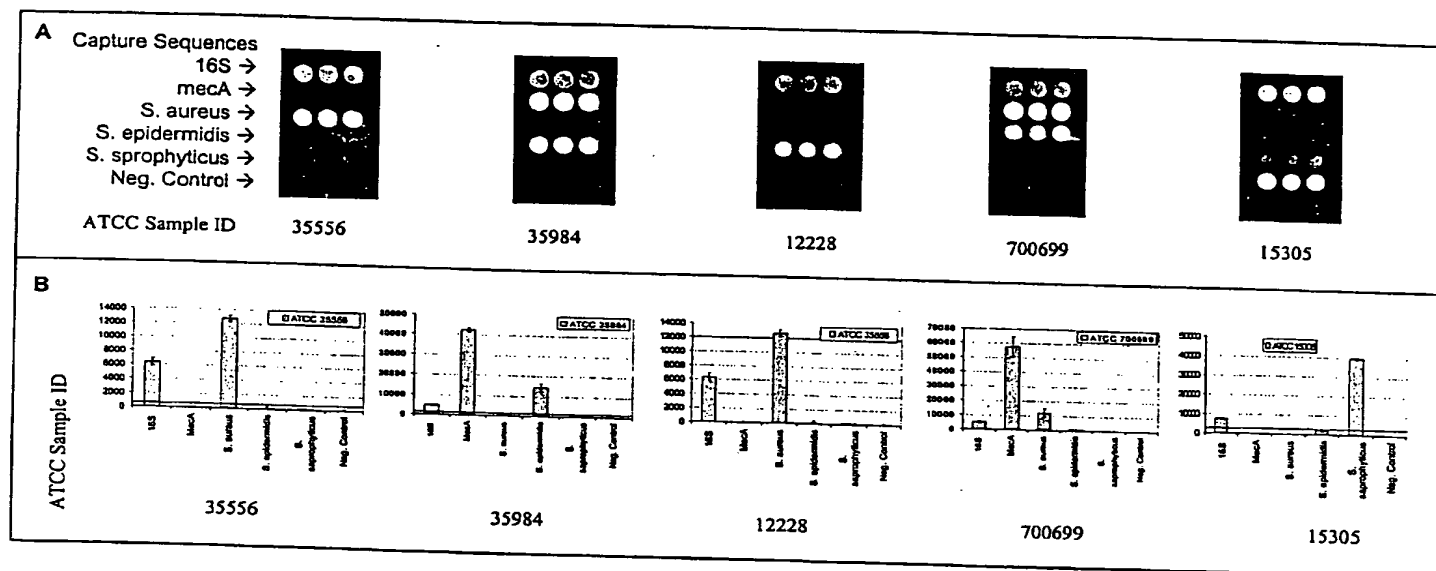


FIG. 20

A



ATCC 35984

ATCC 700699

ATCC 12228

B

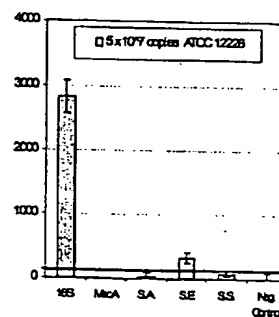
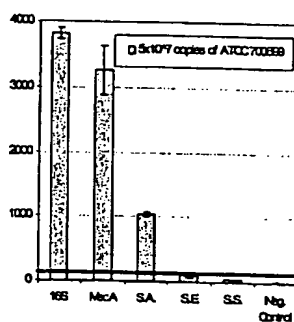
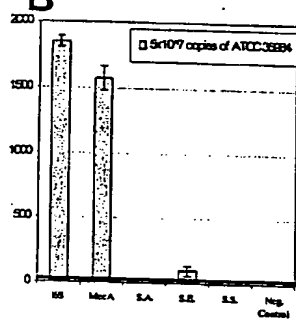


FIG. 21

